Name of Work: Improvements to Roads and Drains in ward 03, Attur, Yelahanka Division

PREMEASUREMENT SHEETS

"FIRST AND FINAL BILL"

Name of Work: Improvements to Roads and Drains in ward 03, Attur, Yelahanka Division

Date of Measurement :

Item No	Discription of Item		No	Length	Breadth	Depth	Qty	Unit
	Detailed Measurements							
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications.							
	RCC Drain							
	Akshay nagar main rd							
	from Main road, LHS							
	Ch: 0 to 28m		1	28.00	1.10	1.00	30.80	
	Ch: 28 to 45m		1	17.00	1.10	1.00	18.70	
	Culvert Gap							
	Ch: 45m to 58.4m		1	13.40	1.10	1.00	14.74	
	Ch: 58.4 to 74.2m		1	15.80	1.10	1.00	17.38	
	Road gap							
	Ch: 74.2 to 103.7m		1	29.50	1.10	1.00	32.45	
	Culvert Gap							
	Ch: 103.7 to116.7m		1	13.00	1.10	1.00	14.30	
	Ch: 103.7 to129.7m		1	13.00	1.10	1.00	14.30	
	Culvert Gap							
	Ch: 129.7 to156.7m		1	27.00	1.10	1.00	29.70	
	Culvert Gap							
	Ch: 156.7 to169.7m		1	13.00	1.10	1.00	14.30	
	Ch: 169.7 to182.7m		1	13.00	1.10	1.00	14.30	
	Culvert Gap							
	Ch: 182.7 to195.7m		1	13.00	1.10	1.00	14.30	
	Ch: 195.7 to211.7m		1	16.00	1.10	1.00	17.60	
	Culvert Gap							
	Ch:211.7 to230.7m		1	19.00	1.10	1.00	20.90	
	Ch:230.7 to248.7m		1	18.00	1.10	1.00	19.80	
	Ch:248.7 to258.5m		1	9.80	1.10	1.00	10.78	
	Ch:258.5 to267.5m		1	9.00	1.10	1.00	9.90	
	Ch:258.5 to286.8m		1	19.30	1.10	1.00	21.23	
	Attur Muneshwara road							
	Cross road-1, LHS							
	Ch: 0 to 19m		1	19.00	1.10	1.00	20.90	
	Cross road-1, RHS							
	Ch: 0 to 14.1m		1	14.10	1.10	1.00	15.51	
	Ch: 0 to 23.4m		1	9.30	1.10	1.00	10.23	
	Cross road-2, LHS							
	Ch: 0 to 9m		1	9.00	1.10	1.00	9.90	
	Ch: 0 to 18.3m		1	9.30	1.10	1.00	10.23	
	Cross road-2, RHS							
	Ch: 0 to 18.3m		1	18.30	1.10	1.00	20.13	

Description of Item		No	Length	Breadth	Depth	Qty	Unit
Cross road-3, LHS							
Ch: 0 to 18.5m		1	18.50	1.10	1.00	20.35	
Cross road-3, RHS							
Ch: 0 to 6.4m		1	6.40				
Ch: 6.4 to 16.8m		1	10.40	1.10	1.00	11.44	
Tirumalanagar, Ashwathnagar							
4th cross road, RHS (from Main rd)							
Ch:0 to 30m		1	30.00	1.10	1.00	33.00	
Ch:30to 32.4m		1	2.40	1.10	1.00	2.64	
Ch:32.4to 36.7m			4.30				
Ch:36.7to 66.7m		1	30.00	1.10	1.00	33.00	
Ch:66.7to 69m		1	2.30	1.10	1.00	2.53	
Ch:69 to 73.5m			4.50				
Ch:73.5 to 100m		1	26.50	1.10	1.00	29.15	
Ch:100 to 123.4m		1	23.40	1.10	1.00	25.74	
Ch:123.4to135.1m		1	11.70	1.10	1.00	12.87	
Ch:135.1to 149.1m		1	14.00	1.10	1.00	15.40	
Culvert Gap							
Ch:149.1 to 161.7m		1	12.60	1.10	1.00	13.86	
Ch:161.7 to 174.2m		1	12.50	1.10	1.00	13.75	
Ch:174.2 to 204.2m		1	30.00	1.10	1.00	33.00	
Ch:204.2 to 234.2m		1	30.00	1.10	1.00	33.00	
Ch:234.2 to 249.2m		1	15.00	1.10	1.00	16.50	
Ch:249.2 to 255.2m			6.00				
Ch:2555.2 to 285.2m		1	30.00	1.10	1.00	33.00	
Ch:285.2 to 297.2m		1	12.00	1.10	1.00	13.20	
4th cross road, LHS (from dead end)							
Ch:0 to 26 m		1	26.00	1.10	1.00	28.60	
Ch:26 to 37.8 m		1	11.80	1.10	1.00	12.98	
Ch:37.8 to 50.5m		1	12.70	1.10	1.00	13.97	
Ch:50.5 to 80.5 m		1	30.00	1.10	1.00	33.00	
Ch:80.5 to 110.5m		1	30.00	1.10	1.00	33.00	
Ch:110.5 to 135.7m		1	25.20	1.10	1.00	27.72	
Ch:135.7 to 149.1m		1	13.40				
Rd gap							
Ch:149.1to 175.1m		1	26.00	1.10	1.00	28.60	
Ch:175.1to 187.1m		1	12.00	1.10	1.00	13.20	
Ch:187.1to 217.1m		1	30.00	1.10	1.00	33.00	
Ch:217.1to 224.1m		1	7.00	1.10	1.00	7.70	
Ch:224.1 to 237.1m		1	13.00	1.10	1.00	14.30	
Ch:237.1to 267.1m		1	30.00	1.10	1.00	33.00	
Ch:267.1to 275m		1	7.90	1.10	1.00	8.69	
Ch:275 to 299m		1	24.00	1.10	1.00	26.40	
Attur, 4th A cross, LHS							
Ch:0 to 30 m		1	30.00	1.10	1.00	33.00	
Ch:30 to 54.5m		1	24.50	1.10	1.00	26.95	
Ch:54.5 to 68.1m		1	13.60	1.10	1.00	14.96	

No	Description of Item		No	Length	Breadth	Depth	Qty	Unit
	RHS							
	Ch:0 to 30 m		1	30.00	1.10	1.00	33.00	
	Ch:30 to 32.9m		1	2.90	1.10	1.00	3.19	
	Attur, 5th A cross, LHS							
	Ch:0 to 30 m		1	30.00	1.10	1.00	33.00	
	Ch:30 to 31.8m		1	1.80	1.10	1.00	1.98	
	RHS							
	Ch:0 to 30 m		1	30.00	1.10	1.00	33.00	
	Ch:30 to 55.9m		1	25.90	1.10	1.00	28.49	
	Ch:55.9 to 67.7m		1	11.80	1.10	1.00	12.98	
	Culvert							
	CD-1, Akshay nagar main rd,LHS (Cross rd-1)		1	7.00	1.50	1.10	11.55	
	CD-2(Cross rd-3)		1	7.30	1.50	1.10	12.05	
	CD-3(Cross rd-4)		1	6.70	1.50	1.10	11.06	
	CD-4(Cross rd-4)		1	9.00	1.50	1.10	14.85	
	CD-5, 2ndCross rd , right side		1	9.00	1.50	1.10	14.85	
	CD-6, 2ndCross rd , left side		1	5.80	1.50	1.10	9.57	
							1353.44	**Cum**

CUFC

Contractor

Assistant Engineer

8/5/2020

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು/8/5/2020
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಡಿ.ಎ.ಪ್ರ. ಬೆಂಗಳೂರು-106

Asst. Executive Engineer,

Name of Work: Improvements to Roads and Drains in ward 03, Attur, Yelahanka Division

ate of Measurement :

Detailed Measurements

tem No	Discription of Item		No	Length	Breadth	Depth	Qty	Unit
2	KSRRB M2900-1: Plain cement concrete M 10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days complete as per specifications.							
	RCC Drain							
	Akshay nagar main rd							
	from Main road, LHS							
	Ch: 0 to 28m		1	28.00	1.10	0.15	4.62	
	Ch: 28 to 45m		1	17.00	1.10	0.15	2.81	
	Culvert Gap							
	Ch: 45m to 58.4m		1	13.40	1.10	0.15	2.21	
	Ch: 58.4 to 74.2m		1	15.80	1.10	0.15	2.61	
	Road gap						0.00	
	Ch: 74.2 to 103.7m		1	29.50	1.10	0.15	4.87	
	Culvert Gap							
	Ch: 103.7 to116.7m		1	13.00	1.10	0.15	2.15	
	Ch: 103.7 to129.7m		1	13.00	1.10	0.15	2.15	
	Culvert Gap							
	Ch: 129.7 to156.7m		1	27.00	1.10	0.15	4.46	
	Culvert Gap						0.00	
	Ch: 156.7 to169.7m		1	13.00	1.10	0.15	2.15	
	Ch: 169.7 to182.7m		1	13.00	1.10	0.15	2.15	
	Culvert Gap							
	Ch: 182.7 to195.7m		1	13.00	1.10	0.15	2.15	
	Ch: 195.7 to211.7m		1	16.00	1.10	0.15	2.64	
	Culvert Gap							
	Ch:211.7 to230.7m		1	19.00	1.10	0.15	3.14	
	Ch:230.7 to248.7m		1	18.00	1.10	0.15	2.97	
	Ch:248.7 to258.5m		1	9.80	1.10	0.15	1.62	
	Ch:258.5 to267.5m		1	9.00	1.10	0.15	1.49	
	Ch:258.5 to286.8m		1	19.30	1.10	0.15	3.18	
	Attur Muneshwara road							
	Cross road-1, LHS							
	Ch: 0 to 19m		1	19.00	1.10	0.15	3.14	
	Cross road-1, RHS							
	Ch: 0 to 14.1m		1	14.10	1.10	0.15	2.33	
	Ch: 0 to 23.4m		1	9.30	1.10	0.15	1.53	
	Cross road-2, LHS							
	Ch: 0 to 9m		1	9.00	1.10	0.15	1.49	
	Ch: 0 to 18.3m		1	9.30	1.10	0.15	1.53	
	Cross road-2, RHS							
	Ch: 0 to 18.3m		1	18.30	1.10	0.15	3.02	
	Cross road-3, LHS							

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em	Discription of Item		No	Length	Breadth	Depth	Qty	Unit
	Ch: 0 to 18.5m		1	18.50	1.10	0.15	3.05	
	Cross road-3, RHS							
	Ch: 0 to 6.4m			6.40				
	Ch: 6.4 to 16.8m		1	10.40	1.10	0.15	1.72	
	Tirumalanagar, Ashwathnagar							
	4th cross road, RHS (from Main rd)							
	Ch:0 to 30m		1	30.00	1.10	0.15	4.95	
	Ch:30to 32.4m		1	2.40	1.10	0.15	0.40	
	Ch:32.4to 36.7m			4.30				
	Ch:36.7to 66.7m		1	30.00	1.10	0.15	4.95	
	Ch:66.7to 69m		1	2.30	1.10	0.15	0.38	
	Ch:69 to 73.5m			4.50				
	Ch:73.5 to 100m		1	26.50	1.10	0.15	4.37	
	Ch:100 to 123.4m		1	23.40	1.10	0.15	3.86	
	Ch:123.4to135.1m		1	11.70	1.10	0.15	1.93	
	Ch:135.1to 149.1m		1	14.00	1.10	0.15	2.31	
	Culvert Gap							
	Ch:149.1 to 161.7m		1	12.60	1.10	0.15	2.08	
	Ch:161.7 to 174.2m		1	12.50	1.10	0.15	2.06	
	Ch:174.2 to 204.2m		1	30.00	1.10	0.15	4.95	
	Ch:204.2 to 234.2m		1	30.00	1.10	0.15	4.95	
	Ch:234.2 to 249.2m		1	15.00	1.10	0.15	2.48	
	Ch:249.2 to 255.2m			6.00				
	Ch:2555.2 to 285.2m		1	30.00	1.10	0.15	4.95	
	Ch:285.2 to 297.2m		1	12.00	1.10	0.15	1.98	
	4th cross road, LHS (from dead end)							
	Ch:0 to 26 m		1	26.00	1.10	0.15	4.29	
	Ch:26 to 37.8 m		1	11.80	1.10	0.15	1.95	
	Ch:37.8 to 50.5m		1	12.70	1.10	0.15	2.10	
	Ch:50.5 to 80.5 m		1	30.00	1.10	0.15	4.95	
	Ch:80.5 to 110.5m		1	30.00	1.10	0.15	4.95	
	Ch:110.5 to 135.7m		1	25.20	1.10	0.15	4.16	
	Ch:135.7 to 149.1m		1	13.40				
	Rd gap							
	Ch:149.1to 175.1m		1	26.00	1.10	0.15	4.29	
	Ch:175.1to 187.1m		1	12.00	1.10	0.15	1.98	
	Ch:187.1to 217.1m		1	30.00	1.10	0.15	4.95	
	Ch:217.1to 224.1m		1	7.00	1.10	0.15	1.16	
	Ch:224.1 to 237.1m		1	13.00	1.10	0.15	2.15	
	Ch:237.1to 267.1m		1	30.00	1.10	0.15	4.95	
	Ch:267.1to 275m		1	7.90	1.10	0.15	1.30	
	Ch:275 to 299m		1	24.00	1.10	0.15	3.96	
	Attur, 4th A cross, LHS							
	Ch:0 to 30 m		1	30.00	1.10	0.15	4.95	
	Ch:30 to 54.5m		1	24.50	1.10	0.15	4.04	
	Ch:54.5 to 68.1m		1	13.60	1.10	0.15	2.24	CB fc
	RHS							

em	Discription of Item		No	Length	Breadth	Depth	Qty	Unit
	Ch:0 to 30 m		1	30.00	1.10	0.15	4.95	
	Ch:30 to 32.9m		1	2.90	1.10	0.15	0.48	
	Attur, 5th A cross, LHS							
	Ch:0 to 30 m		1	30.00	1.10	0.15	4.95	
	Ch:30 to 31.8m		1	1.80	1.10	0.15	0.30	
	RHS							
	Ch:0 to 30 m		1	30.00	1.10	0.15	4.95	
	Ch:30 to 55.9m		1	25.90	1.10	0.15	4.27	
	Ch:55.9 to 67.7m		1	11.80	1.10	0.15	1.95	
	Culvert							
	CD-1, Akshay nagar main rd,LHS (Cross rd-1)		1	7.00	1.80	0.15	1.89	
	CD-2(Cross rd-3)		1	7.30	1.50	0.15	1.64	
	CD-3(Cross rd-4)		1	6.70	1.50	0.20	2.01	
	CD-4(Cross rd-4)		1	9.00	1.50	0.15	2.03	
	CD-5, 2ndCross rd , right side		1	9.00	1.50	0.15	2.03	
	CD-6, 2ndCross rd , left side		1	5.80	1.50	0.15	1.31	
							202.83	Cum

CUFC

Contractor

Assistant Engineer

19/5/2020

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ಯಲಹಂಕ ಉಪವಿಭಾಗ ಬೆಂಗಳೂರು
Asst. Executive Engineer,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-೬೯

19/5/2020

Name of Work: Improvements to Roads and Drains in ward 03, Attur, Yelahanka Division

Date of Measurement :

Detailed Measurements

Item No	Discription of Item		No	Length	Breadth	Depth	Qty	Unit
3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification.							
	RCC Drain							
	RAFT							
	Akshay nagar main rd							
	from Main road, LHS							
	Ch: 0 to 28m		1	28.00	0.80	0.15	3.36	
	Ch: 28 to 45m		1	17.00	0.80	0.15	2.04	
	Culvert Gap							
	Ch: 45m to 58.4m		1	13.40	0.80	0.15	1.61	
	Ch: 58.4 to 74.2m		1	15.80	0.80	0.15	1.90	
	Road gap						0.00	
	Ch: 74.2 to 103.7m		1	29.50	0.80	0.15	3.54	
	Culvert Gap							
	Ch: 103.7 to116.7m		1	13.00	0.80	0.15	1.56	
	Ch: 103.7 to129.7m		1	13.00	0.80	0.15	1.56	
	Culvert Gap							
	Ch: 129.7 to156.7m		1	27.00	0.80	0.15	3.24	
	Culvert Gap						0.00	
	Ch: 156.7 to169.7m		1	13.00	0.80	0.15	1.56	
	Ch: 169.7 to182.7m		1	13.00	0.80	0.15	1.56	
	Culvert Gap							
	Ch: 182.7 to195.7m		1	13.00	0.80	0.15	1.56	
	Ch: 195.7 to211.7m		1	16.00	0.80	0.15	1.92	
	Culvert Gap							
	Ch:211.7 to230.7m		1	19.00	0.80	0.15	2.28	
	Ch:230.7 to248.7m		1	18.00	0.80	0.15	2.16	
	Ch:248.7 to258.5m		1	9.80	0.80	0.15	1.18	
	Ch:258.5 to267.5m		1	9.00	0.80	0.15	1.08	
	Ch:258.5 to286.8m		1	19.30	0.80	0.15	2.32	
	Attur Muneshwara road							
	Cross road-1, LHS							
	Ch: 0 to 19m		1	19.00	0.80	0.15	2.28	
	Cross road-1, RHS							
	Ch: 0 to 14.1m		1	14.10	0.80	0.15	1.69	
	Ch: 0 to 23.4m		1	9.30	0.80	0.15	1.12	
	Cross road-2, LHS							
	Ch: 0 to 9m		1	9.00	0.80	0.15	1.08	

em	Discription of Item		No	Length	Breadth	Depth	Qty	Unit
	Ch: 0 to 18.3m		1	9.30	0.80	0.15	1.12	
	Cross road-2, RHS							
	Ch: 0 to 18.3m		1	18.30	0.80	0.15	2.20	
	Cross road-3, LHS							
	Ch: 0 to 18.5m		1	18.50	0.80	0.15	2.22	
	Cross road-3, RHS							
	Ch: 0 to 6.4m			6.40				
	Ch: 6.4 to 16.8m		1	10.40	0.80	0.15	1.25	
	Tirumalanagar, Ashwathnagar							
	4th cross road, RHS (from Main rd)							
	Ch:0 to 30m		1	30.00	0.80	0.15	3.60	
	Ch:30to 32.4m		1	2.40	0.80	0.15	0.29	
	Ch:32.4to 36.7m			4.30				
	Ch:36.7to 66.7m		1	30.00	0.80	0.15	3.60	
	Ch:66.7to 69m		1	2.30	0.80	0.15	0.28	
	Ch:69 to 73.5m			4.50				
	Ch:73.5 to 100m		1	26.50	0.80	0.15	3.18	
	Ch:100 to 123.4m		1	23.40	0.80	0.15	2.81	
	Ch:123.4to135.1m		1	11.70	0.80	0.15	1.40	
	Ch:135.1to 149.1m		1	14.00	0.80	0.15	1.68	
	Culvert Gap							
	Ch:149.1 to 161.7m		1	12.60	0.80	0.15	1.51	
	Ch:161.7 to 174.2m		1	12.50	0.80	0.15	1.50	
	Ch:174.2 to 204.2m		1	30.00	0.80	0.15	3.60	
	Ch:204.2 to 234.2m		1	30.00	0.80	0.15	3.60	
	Ch:234.2 to 249.2m		1	15.00	0.80	0.15	1.80	
	Ch:249.2 to 255.2m			6.00				
	Ch:2555.2 to 285.2m		1	30.00	0.80	0.15	3.60	
	Ch:285.2 to 297.2m		1	12.00	0.80	0.15	1.44	
	4th cross road, LHS (from dead end)							
	Ch:0 to 26 m		1	26.00	0.80	0.15	3.12	
	Ch:26 to 37.8 m		1	11.80	0.80	0.15	1.42	
	Ch:37.8 to 50.5m		1	12.70	0.80	0.15	1.52	
	Ch:50.5 to 80.5 m		1	30.00	0.80	0.15	3.60	
	Ch:80.5 to 110.5m		1	30.00	0.80	0.15	3.60	
	Ch:110.5 to 135.7m		1	25.20	0.80	0.15	3.02	
	Ch:135.7 to 149.1m		1	13.40				
	Rd gap							
	Ch:149.1to 175.1m		1	26.00	0.80	0.15	3.12	
	Ch:175.1to 187.1m		1	12.00	0.80	0.15	1.44	
	Ch:187.1to 217.1m		1	30.00	0.80	0.15	3.60	
	Ch:217.1to 224.1m		1	7.00	0.80	0.15	0.84	
	Ch:224.1 to 237.1m		1	13.00	0.80	0.15	1.56	
	Ch:237.1to 267.1m		1	30.00	0.80	0.15	3.60	
	Ch:267.1to 275m		1	7.90	0.80	0.15	0.95	
	Ch:275 to 299m		1	24.00	0.80	0.15	2.88	
	Attur, 4th A cross, LHS							

em	Discription of Item		No	Length	Breadth	Depth	Qty	Unit
	Ch:0 to 30 m		1	30.00	0.80	0.15	3.60	
	Ch:30 to 54.5m		1	24.50	0.80	0.15	2.94	
	Ch:54.5 to 68.1m		1	13.60	0.80	0.15	1.63	
	RHS							
	Ch:0 to 30 m		1	30.00	0.80	0.15	3.60	
	Ch:30 to 32.9m		1	2.90	0.80	0.15	0.35	
	Attur, 5th A cross, LHS							
	Ch:0 to 30 m		1	30.00	0.80	0.15	3.60	
	Ch:30 to 31.8m		1	1.80	0.80	0.15	0.22	
	RHS							
	Ch:0 to 30 m		1	30.00	0.80	0.15	3.60	
	Ch:30 to 55.9m		1	25.90	0.80	0.15	3.11	
	Ch:55.9 to 67.7m		1	11.80	0.80	0.15	1.42	
	WALL							
	Akshay nagar main rd							
	from Main road, LHS							
	Ch: 0 to 28m		2	28.00	0.15	0.60	5.04	
	Ch: 28 to 45m		2	17.00	0.15	0.60	3.06	
	Culvert Gap							
	Ch: 45m to 58.4m		2	13.40	0.15	0.60	2.41	
	Ch: 58.4 to 74.2m		2	15.80	0.15	0.60	2.84	
	Road gap							
	Ch: 74.2 to 103.7m		2	29.50	0.15	0.60	5.31	
	Culvert Gap							
	Ch: 103.7 to116.7m		2	13.00	0.15	0.60	2.34	
	Ch: 103.7 to129.7m		2	13.00	0.15	0.60	2.34	
	Culvert Gap							
	Ch: 129.7 to156.7m		2	27.00	0.15	0.60	4.86	
	Culvert Gap							
	Ch: 156.7 to169.7m		2	13.00	0.15	0.80	3.12	
	Ch: 169.7 to182.7m		2	13.00	0.15	0.80	3.12	
	Culvert Gap							
	Ch: 182.7 to195.7m		2	13.00	0.15	0.80	3.12	
	Ch: 195.7 to211.7m		2	16.00	0.15	0.80	3.84	
	Culvert Gap							
	Ch:211.7 to230.7m		2	19.00	0.15	0.85	4.85	
	Ch:230.7 to248.7m		2	18.00	0.15	0.80	4.32	
	Ch:248.7 to258.5m		2	9.80	0.15	0.80	2.35	
	Ch:258.5 to267.5m		2	9.00	0.15	0.80	2.16	
	Ch:258.5 to286.8m		2	19.30	0.15	0.80	4.63	
	Attur Muneshwara road							
	Cross road-1, LHS							
	Ch: 0 to 19m		2	19.00	0.15	0.55	3.14	
	Cross road-1, RHS							
	Ch: 0 to 14.1m		2	14.10	0.15	0.55	2.33	
	Ch: 0 to 23.4m		2	9.30	0.15	0.55	1.53	
	Cross road-2, LHS							

em	Discription of Item		No	Length	Breadth	Depth	Qty	Unit
	Ch: 0 to 9m		2	9.00	0.15	0.55	1.49	
	Ch: 0 to 18.3m		2	9.30	0.15	0.55	1.53	
	Cross road-2, RHS							
	Ch: 0 to 18.3m		2	18.30	0.15	0.55	3.02	
	Cross road-3, LHS							
	Ch: 0 to 18.5m		2	18.50	0.15	0.55	3.05	
	Cross road-3, RHS							
	Ch: 0 to 6.4m			6.40				
	Ch: 6.4 to 16.8m		2	10.40	0.15	0.55	1.72	
	Tirumalanagar, Ashwathnagar							
	4th cross road, RHS (from Main rd)							
	Ch:0 to 30m		2	30.00	0.15	0.60	5.40	
	Ch:30to 32.4m		2	2.40	0.15	0.60	0.43	
	Ch:32.4to 36.7m			4.30				
	Ch:36.7to 66.7m		2	30.00	0.15	0.60	5.40	
	Ch:66.7to 69m		2	2.30	0.15	0.60	0.41	
	Ch:69 to 73.5m			4.50				
	Ch:73.5 to 100m		2	26.50	0.15	0.60	4.77	
	Ch:100 to 123.4m		2	23.40	0.15	0.60	4.21	
	Ch:123.4to135.1m		2	11.70	0.15	0.60	2.11	
	Ch:135.1to 149.1m		2	14.00	0.15	0.60	2.52	
	Culvert Gap							
	Ch:149.1 to 161.7m		2	12.60	0.15	0.60	2.27	
	Ch:161.7 to 174.2m		2	12.50	0.15	0.60	2.25	
	Ch:174.2 to 204.2m		2	30.00	0.15	0.60	5.40	
	Ch:204.2 to 234.2m		2	30.00	0.15	0.60	5.40	
	Ch:234.2 to 249.2m		2	15.00	0.15	0.60	2.70	
	Ch:249.2 to 255.2m			6.00				
	Ch:2555.2 to 285.2m		2	30.00	0.15	0.60	5.40	
	Ch:285.2 to 297.2m		2	12.00	0.15	0.60	2.16	
	4th cross road, LHS (from dead end)							
	Ch:0 to 26 m		2	26.00	0.15	0.60	4.68	
	Ch:26 to 37.8 m		2	11.80	0.15	0.60	2.12	
	Ch:37.8 to 50.5m		2	12.70	0.15	0.60	2.29	
	Ch:50.5 to 80.5 m		2	30.00	0.15	0.60	5.40	
	Ch:80.5 to 110.5m		2	30.00	0.15	0.60	5.40	
	Ch:110.5 to 135.7m		2	25.20	0.15	0.60	4.54	
	Ch:135.7 to 149.1m		2	13.40				
	Rd gap							
	Ch:149.1to 175.1m		2	26.00	0.15	0.60	4.68	
	Ch:175.1to 187.1m		2	12.00	0.15	0.60	2.16	
	Ch:187.1to 217.1m		2	30.00	0.15	0.60	5.40	
	Ch:217.1to 224.1m		2	7.00	0.15	0.60	1.26	
	Ch:224.1 to 237.1m		2	13.00	0.15	0.60	2.34	
	Ch:237.1to 267.1m		2	30.00	0.15	0.60	5.40	
	Ch:267.1to 275m		2	7.90	0.15	0.60	1.42	
	Ch:275 to 299m		2	24.00	0.15	0.60	4.32	

Item No	Discription of Item		No	Length	Breadth	Depth	Qty	Unit
	Attur, 4th A cross, LHS							
	Ch:0 to 30 m		2	30.00	0.15	0.60	5.40	
	Ch:30 to 54.5m		2	24.50	0.15	0.60	4.41	
	Ch:54.5 to 68.1m		2	13.60	0.15	0.55	2.24	
	RHS							
	Ch:0 to 30 m		2	30.00	0.15	0.60	5.40	
	Ch:30 to 32.9m		2	2.90	0.15	0.55	0.48	
	Attur, 5th A cross, LHS							
	Ch:0 to 30 m		2	30.00	0.15	0.60	5.40	
	Ch:30 to 31.8m		2	1.80	0.15	0.55	0.30	
	RHS							
	Ch:0 to 30 m		2	30.00	0.15	0.60	5.40	
	Ch:30 to 55.9m		2	25.90	0.15	0.60	4.66	
	Ch:55.9 to 67.7m		2	11.80	0.15	0.50	1.77	
	Culvert							
	RAFT							
	Culvert							
	CD-1, Akshay nagar main rd,LHS (Cross rd-1)		1	7.00	1.50	0.25	2.63	
	CD-2(Cross rd-3)		1	7.30	1.30	0.23	2.18	
	CD-3(Cross rd-4)		1	6.70	1.30	0.23	2.00	
	CD-4(Cross rd-4)		1	9.00	1.30	0.23	2.69	
	CD-5, 2ndCross rd , right side		1	9.00	1.30	0.23	2.69	
	CD-6, 2ndCross rd , left side		1	5.80	1.30	0.23	1.73	
	WALL							
	CD-1, Akshay nagar main rd,LHS (Cross rd-1)		2	7.00	0.25	0.60	2.10	
	CD-2(Cross rd-3)		2	7.30	0.23	0.60	2.01	
	CD-3(Cross rd-4)		2	6.70	0.23	0.60	1.85	
	CD-4(Cross rd-4)		2	9.00	0.23	0.60	2.48	
	CD-5, 2ndCross rd , right side		2	9.00	0.23	0.60	2.48	
	CD-6, 2ndCross rd , left side		2	5.80	0.23	0.60	1.60	
							381.28	Cum

Contractor

Assistant Engineer

4/7/2020

Asst. Executive Engineer,

4/7/2020

Name of Work: Improvements to Roads and Drains in ward 03, Attur, Yelahanka Division

ate of Measurement :

Detailed Measurements

tem No	Discription of Item		No	Length	Breadth	Depth	Qty	Unit
4	KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.							
	RCC Drain							
	Akshay nagar main rd							
	from Main road, LHS							
	Total Drain length=286.80m							
	Main bar 10mm dia bar @ 100mm							
	0.61kg/mtr							
	No of U-bar=2868.00Nos		2868	1.90		0.61	3324.01	
	Distribution bar							
	Distribution bar 10mm dia @ 150mm							
	0.61kg/mtr		13	286.80		0.61	2274.32	
	Attur Muneshwara road							
	Cross road-1, LHS							
	Total Drain length=19.00m							
	Main bar 10mm dia bar @ 100mm							
	0.61kg/mtr							
	No of U-bar=190.00Nos		190	1.80		0.61	208.62	
	Distribution bar							
	Distribution bar 10mm dia @ 150mm							
	0.61kg/mtr		13	19.00		0.61	150.67	
	Cross road-1, RHS							
	Total Drain length=23.40m							
	Main bar 10mm dia bar @ 100mm							
	0.61kg/mtr							
	No of U-bar=234.00Nos		234	1.80		0.61	256.93	
	Distribution bar							
	Distribution bar 10mm dia @ 150mm							
	0.61kg/mtr		13	23.40		0.61	185.56	
	Cross road-2, LHS							
	Total Drain length=18.30m							
	Main bar 10mm dia bar @ 100mm							
	0.61kg/mtr							
	No of U-bar=183.00Nos		183	1.80		0.61	200.93	
	Distribution bar							
	Distribution bar 10mm dia @ 150mm							
	0.61kg/mtr		13	18.30		0.61	145.12	
	Cross road-2, RHS							
	Total Drain length=18.30m							

Item No	Discription of Item		No	Length	Breadth	Depth	Qty	Unit
	Main bar 10mm dia bar @ 100mm							
	0.61kg/mtr							
	No of U-bar=183.00Nos		183	1.80		0.61	200.93	
	Distribution bar							
	Distribution bar 10mm dia @ 150mm							
	0.61kg/mtr		13	18.30		0.61	145.12	
	Cross road-3, LHS							
	Total Drain length=18.50m							
	Main bar 10mm dia bar @ 100mm							
	0.61kg/mtr							
	No of U-bar=185.00Nos		185	1.80		0.61	203.13	
	Distribution bar							
	Distribution bar 10mm dia @ 150mm							
	0.61kg/mtr		13	18.50		0.61	146.71	
	Cross road-3, RHS							
	Total Drain length=10.40m							
	Main bar 10mm dia bar @ 100mm							
	0.61kg/mtr							
	No of U-bar=104.00Nos		104	1.80		0.61	114.19	
	Distribution bar							
	Distribution bar 10mm dia @ 150mm							
	0.61kg/mtr		13	10.40		0.61	82.47	
	Tirumalanagar, Ashwathnagar							
	4th cross road, RHS (from Main rd)							
	Total Drain length=282.40m							
	Main bar 10mm dia bar @ 100mm							
	0.61kg/mtr							
	No of U-bar=2824.00Nos		2824	1.90		0.61	3273.02	
	Distribution bar							
	Distribution bar 10mm dia @ 150mm							
	0.61kg/mtr		13	282.40		0.61	2239.43	
	4th cross road, LHS (from dead end)							
	Total Drain length=285.60m							
	Main bar 10mm dia bar @ 100mm							
	0.61kg/mtr							
	No of U-bar=2856.00Nos		2856	1.90		0.61	3310.10	
	Distribution bar							
	Distribution bar 10mm dia @ 150mm							
	0.61kg/mtr		13	285.60		0.61	2264.81	
	Attur, 4th A cross, LHS							
	Total Drain length=68.10m							
	Main bar 10mm dia bar @ 100mm							
	0.61kg/mtr							
	No of U-bar=681.00Nos		681	1.80		0.61	747.74	
	Distribution bar							

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Discription of Item	No	Length	Breadth	Depth	Qty	Unit
Distribution bar 10mm dia @ 150mm						
0.61kg/mtr	13	68.10		0.61	540.03	
Attur, 4th A cross, RHS						
Total Drain length=32.90m						
Main bar 10mm dia bar @ 100mm						
0.61kg/mtr						
No of U-bar=329.00Nos	329	1.80		0.61	361.24	
Distribution bar						
Distribution bar 10mm dia @ 150mm						
0.61kg/mtr	13	32.90		0.61	260.90	
Attur, 5th A cross, LHS						
Total Drain length=31.80m						
Main bar 10mm dia bar @ 100mm						
0.61kg/mtr						
No of U-bar=318.00Nos	318	1.80		0.61	349.16	
Distribution bar						
Distribution bar 10mm dia @ 150mm						
0.61kg/mtr	13	31.80		0.61	252.17	
Attur, 5th A cross, RHS						
Total Drain length=67.70m						
Main bar 10mm dia bar @ 100mm						
0.61kg/mtr						
No of U-bar=677.00Nos	677	1.80		0.61	739.54	
Distribution bar						
Distribution bar 10mm dia @ 150mm						
0.61kg/mtr	13	67.70		0.61	536.86	
Culvert, Double mat						
Total Drain length=44.80m						
Main bar 10mm dia bar @ 150mm						
0.61kg/mtr						
No of U-bar=248*2	496	2.05		0.61	620.25	
Distribution bar						
Distribution bar 10mm dia @ 180mm						
0.61kg/mtr=10*2	20	44.80		0.61	546.56	
					23680.54	
				Present Qty	**23.68**	**Ton**

Contractor

Assistant Engineer

4/7/2020

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Asst. Executive Engineer,

Name of Work: Improvements to Roads and Drains in ward 03, Attur, Yelahanka Division

Detailed Measurements

Item No	Discription of Item		No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications.									
	Pre-measurement sheet no.						1353.44			
							1353.44	Cum	220.40	298299.00
2	KSRRB M2900-1: Plain cement concrete M 10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days complete as per specifications.									
	Pre-measurement sheet no.						202.83			
							202.83	Cum	4479.56	908569.00
3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification.									
	Pre-measurement sheet no.						381.28			
							381.28	Cum	7070.20	2695701.00
4	KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.									
	Pre-measurement sheet no.						23.68			
							23.68	Tn	73992.24	1752177.00

Contractor

Assistant Engineer

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ಯಲಹಂಕ ವಿಭಾಗದ ಇಂಜಿನಿಯರ್
ಜಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Asst. Executive Engineer

Name of Work: **Improvements to Roads and Drains in ward 03, Attur, Yelahanka Division**

Date of Measurement :

Detailed Measurements

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
5	Providing and fixing RCC precast cover slab of 100mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge.								
	RCC Drain								
	Akshay nagar main rd								
	from Main road, LHS								
	Ch: 0 to 28m	1	28.00	0.75		21.00			
	Ch: 28 to 45m	1	17.00						
	Culvert Gap								
	Ch: 45m to 58.4m	1	13.40	0.75		10.05			
	Ch: 58.4 to 74.2m	1	15.80						
	Road gap								
	Ch: 74.2 to 103.7m	1	29.50	0.75		22.13			
	Culvert Gap								
	Ch: 103.7 to116.7m	1	13.00	0.75		9.75			
	Ch: 103.7 to129.7m	1	13.00						
	Culvert Gap								
	Ch: 129.7 to156.7m	1	27.00						
	Culvert Gap								
	Ch: 156.7 to169.7m	1	13.00						
	Ch: 169.7 to182.7m	1	13.00	0.75		9.75			
	Culvert Gap								
	Ch: 182.7 to195.7m	1	13.00						
	Ch: 195.7 to211.7m	1	16.00	0.75		12.00			
	Culvert Gap								
	Ch:211.7 to230.7m	1	19.00						
	Ch:230.7 to248.7m	1	18.00						
	Ch:248.7 to258.5m	1	9.80						
	Ch:258.5 to267.5m	1	9.00						
	Ch:258.5 to286.8m	1	19.30						
	Attur Muneshwara road								
	Cross road-1, LHS								
	Ch: 0 to 19m	1	19.00	0.75		14.25			
	Cross road-1, RHS								
	Ch: 0 to 14.1m	1	14.10						
	Ch: 0 to 23.4m	1	9.30	0.75		6.98			
	Cross road-2, LHS								
	Ch: 0 to 9m	1	9.00						
	Ch: 0 to 18.3m	1	9.30	0.75		6.98			
	Cross road-2, RHS								
	Ch: 0 to 18.3m	1	18.30	0.75		13.73			
	Cross road-3, LHS								

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
	Ch: 0 to 18.5m	1	18.50	0.75		13.88			
	Cross road-3, RHS								
	Ch: 0 to 6.4m	1	6.40						
	Ch: 6.4 to 16.8m	1	10.40	0.75		7.80			
	Tirumalanagar, Ashwathnagar								
	4th cross road, RHS (from Main rd)								
	Ch:0 to 30m	1	30.00	0.75		22.50			
	Ch:30to 32.4m	1	2.40	0.75		1.80			
	Ch:32.4to 36.7m	1	4.30						
	Ch:36.7to 66.7m	1	30.00	0.75		22.50			
	Ch:66.7to 69m	1	2.30	0.75		1.73			
	Ch:69 to 73.5m	1	4.50						
	Ch:73.5 to 100m	1	26.50	0.75		19.88			
	Ch:100 to 123.4m	1	23.40						
	Ch:123.4to135.1m	1	11.70	0.75		8.78			
	Ch:135.1to 149.1m	1	14.00	0.75		10.50			
	Culvert Gap								
	Ch:149.1 to 161.7m	1	12.60	0.75		9.45			
	Ch:161.7 to 174.2m	1	12.50						
	Ch:174.2 to 204.2m	1	30.00	0.75		22.50			
	Ch:204.2 to 234.2m	1	30.00	0.75		22.50			
	Ch:234.2 to 249.2m	1	15.00	0.75		11.25			
	Ch:249.2 to 255.2m	1	6.00						
	Ch:2555.2 to 285.2m	1	30.00	0.75		22.50			
	Ch:285.2 to 297.2m	1	12.00	0.75		9.00			
	4th cross road, LHS (from dead end)								
	Ch:0 to 26 m	1	26.00	0.75		19.50			
	Ch:26 to 37.8 m	1	11.80						
	Ch:37.8 to 50.5m	1	12.70	0.75		9.53			
	Ch:50.5 to 80.5 m	1	30.00	0.75		22.50			
	Ch:80.5 to 110.5m	1	30.00	0.75		22.50			
	Ch:110.5 to 135.7m	1	25.20	0.75		18.90			
	Ch:135.7 to 149.1m	1	13.40						
	Rd gap								
	Ch:149.1to 175.1m	1	25.50	0.75		19.13			
	Ch:175.1to 187.1m	1	12.00						
	Ch:187.1to 217.1m	1	30.00	0.75		22.50			
	Ch:217.1to 224.1m	1	7.00	0.75		5.25			
	Ch:224.1 to 237.1m	1	13.00						
	Ch:237.1to 267.1m	1	30.00	0.75		22.50			
	Ch:267.1to 275m	1	7.90	0.75		5.93			
	Ch:275 to 299m	1	24.00						
	Attur, 4th A cross, LHS								
	Ch:0 to 30 m	1	30.00	0.75		22.50			
	Ch:30 to 54.5m	1	24.50	0.75		18.38			
	Ch:54.5 to 68.1m	1	13.60	0.75		10.20			
	RHS								
	Ch:0 to 30 m	1	30.00	0.75		22.50			
	Ch:30 to 32.9m	1	2.90	0.75		2.18			

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
	Attur, 5th A cross, LHS								
	Ch:0 to 30 m	1	30.00	0.75		22.50			
	Ch:30 to 31.8m	1	1.80	0.75		1.35			
	RHS								
	Ch:0 to 30 m	1	30.00	0.75		22.50			
	Ch:30 to 55.9m	1	25.90	0.75		19.43			
	Ch:55.9 to 67.7m	1	11.80	0.75		8.85			
	Missing/Damaged slabs								
	Tirumalanagar								
		17	0.75	0.60		7.65			
		14	0.75	0.60		6.30			
		19	0.75	0.60		8.55			
		58	0.75	0.60		26.10			
		42	0.75	0.60		18.90			
	Chikkadinne								
		25	0.75	0.60		11.25			
		29	0.75	0.60		13.05			
		22	0.75	0.60		9.90			
		47	0.75	0.60		21.15			
		13	0.75	0.60		5.85			
		40	0.75	0.60		18.00			
	Chithra layout								
		31	0.90	0.60		16.74			
		39	0.90	0.60		21.06			
		45	0.90	0.60		24.30			
		30	0.90	0.60		16.20			
	Santoshnagar								
		22	0.90	0.60		11.88			
		29	0.90	0.60		15.66			
		18	0.90	0.60		9.72			
		21	0.90	0.60		11.34			
	Chikkabettahalli								
		25	0.90	0.60		13.50			
		38	0.90	0.60		20.52			
		68	0.90	0.60		36.72			
		44	0.90	0.60		23.76			
		35	0.90	0.60		18.90			
	CQAL Layout Main Road								
		21	0.90	0.60		11.34			
		43	0.90	0.60		23.22			
		59	0.90	0.60		31.86			
						1105.17	**Sqm**	**2337.00**	**2582783.00**

Contractor

Assistant Engineer

27/6/2020

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಯಶವಂತಪುರ ಉಪನಗರ ಉಪವಿಭಾಗ
Asst. Executive Engineer
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-56

27/6/2020

Name of Work: Improvements to Roads and Drains in ward 03, Attur, Yelahanka Division

Date of Measurement :

Item No	Discription of Item		No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
	Detailed Measurements									
6	Providing and fixing RCC precast cover slab of 250mm thick made out of CC 1:2:4 and jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge.									
	Culvert									
	CD-1, Akshay nagar main rd,LHS (Cross rd-1)		1	7.00	1.50		10.50			
	CD-2(Cross rd-3)		1	7.30	1.20		8.76			
	CD-3(Cross rd-4)		1	6.70	1.20		8.04			
	CD-4(Cross rd-4)		1	9.00	1.50		13.50			
	CD-5, 2ndCross rd , right side		1	9.00	1.20		10.80			
	CD-6, 2ndCross rd , left side		1	5.80	1.20		6.96			
						Present Qty	**58.56**	**Sqm**		
						Limitted to	**54.00**	**Sqm**	**5418.00**	**292572.00**
							Total			**853010.00**
							12% GST			**1023612.12**
							KRIDL 4.0%			**341204.04**
							Grand Total			**9894917.16**

Contractor

Assistant Engineer

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪವಿಭಾಗ ಬಿಬಿಎಂಪಿ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Asst. Executive Engineer